

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-153  
Relating to Certification of New Motor Vehicles

NISSAN MOTOR CO., LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
KNS2.4T5HAC5	2.4      (145.8)	Air Injection - Valve Exhaust Gas Recirculation Oxygen Sensor Dual Bed Catalyst (Central Fuel Injection) (On-Board Diagnostics)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
3751 - 5750	0.50	9.0	1.0

The following are the certification emission values for this engine family:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
3751 - 5750	0.26	5.0	0.4

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 18<sup>th</sup> day of July, 1988.



K. D. Drachand, Chief  
Mobile Source Division

#17.12.00-9

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Page 1

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5HAC5  
 Evaporative Family: TBI-1 Engine Type: In-line 4, OHC  
 Liters (CID): 2.4 (145.8)

ABBREVIATIONS

<u>Ignition System</u>	<u>Exhaust Emission Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion Chamber Valve
ECU-Electronic Control Unit	AIV-Air Injection-Valve	CFI-Central Fuel Injection or Throttle Body Injection
EI-Electronic Ignition	DBC-Dual Bed Catalyst	DID-Diesel Injection-Direct
ESAC-Electronic Spark Advance Control	EGR-Exhaust Gas Recirculation	DIP-Diesel Injection-Prechamber
VA-Vacuum Advance	OS-Oxygen Sensor	IC-Intercooler or Aftercooler
VR-Vacuum Retard	HOS-Heated Oxygen Sensor	EPFI-Electronic Port Fuel Injection
	EM-Engine Modification	MPFI-Mechanical Port Fuel Injection
	OC-Oxidation Catalyst	SFI-Sequential Fuel Injection
	SPL-Smoke Puff Limiter or Throttle Delay	TC-Turbocharger
	TOC-Trap Oxidizer, Continual	SC-Supercharger
	TOP-Trap Oxidizer, Periodical	OBD-On-Board Diagnostics
	EIC-Electronic Injection Control (Diesel Only)	
	TWC-Three-Way Catalyst	
	WUOC-Warm-Up Oxidation Catalyst	
	WUTWC-Warm-Up Three-Way Catalyst	
<u>Fuel System</u>		
CFI, SFI, HOS, OS,		
DIP, EPFI, MPFI, DID		
nV-nVenturi Carburetor		
VV-Variable Venturi Carburetor		

VEHICLE MODELS:

<u>Engine Code</u>	<u>Model</u>	<u>Transmission</u>
AZ24ICM4 -----	NISSAN E LONG BED 4X4	----- 5-speed Manual
	NISSAN E KING CAB 4X4	
	NISSAN XE KING CAB 4X4	
BZ24ICM4 -----	NISSAN E LONG BED 4X4	----- 5-Speed Manual
	NISSAN E KING CAB 4X4	
	NISSAN XE KING CAB 4X4	

Engine: Front X Mid.        Rear       

Drive : FWD        RWD X 4WD Full Time        4WD Part Time X

Issue Date: 04/20/88  
 Revision Date:

#17.12.00-10

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Passenger Cars      Light-Duty Trucks   X   Medium-Duty Vehicles      Gas   X   Diesel     

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5HAC5  
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC  
 Emission Control Sys. (Special Features): AIV/DBC/EGR/OS (CFI/OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System Part No.	EGR Valve Part No.	Catalyst *** Part No.
AZ24ICM4	NISSAN E LONG BED 4X4 (14.5)	M5	** 3875	Distributor D4P84-04	SPI Body Assem- bly RGA50-41	EGR Valve AEY76-88	D-xx,xJ
	NISSAN E KING BED 4X4 (14.5)						D-xx,xK
	NISSAN XE KING BED 4X4 (14.5)			Control Unit MECS-G545	Control Unit MECS-G545		D-xx,xE
	NISSAN XE KING BED 4X4 (14.5)						D-xx,xF
BZ24ICM4	NISSAN E LONG BED 4X4 (14.5)		** 3750				
	NISSAN E KING BED 4X4 (14.5)						
	NISSAN XE KING BED 4X4 (14.5)						
	NISSAN XE KING BED 4X4 (14.5)						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

\*\*EIV of these models are between 4000 - 5999 lbs.

\*\*\*The figures and numbers in the place of the mark x are variable according to lot number and production date.

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5HAC5  
 Evaporative Family: TBI-2 Engine Type: In-line 4, OHC  
 Liters (CID): 2.4 (145.8)

ABBREVIATIONS

<u>Ignition System</u>	<u>Exhaust Emission Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion Chamber Valve
ECU-Electronic Control Unit	AIV-Air Injection-Valve	CFI-Central Fuel Injection or Throttle Body Injection
EI-Electronic Ignition	DBC-Dual Bed Catalyst	DID-Diesel Injection-Direct
ESAC-Electronic Spark Advance Control	EGR-Exhaust Gas Recirculation	DIP-Diesel Injection-Prechamber
VA-Vacuum Advance	OS-Oxygen Sensor	IC-Intercooler or Aftercooler
VR-Vacuum Retard	HOS-Heated Oxygen Sensor	EPFI-Electronic Port Fuel Injection
	EM-Engine Modification	MPFI-Mechanical Port Fuel Injection
	OC-Oxidation Catalyst	SFI-Sequential Fuel Injection
	SPL-Smoke Puff Limiter or Throttle Delay	TC-Turbocharger
	TOC-Trap Oxidizer, Continual	SC-Supercharger
	TOP-Trap Oxidizer, Periodical	OBD-On-Board Diagnostics
	EIC-Electronic Injection Control (Diesel Only)	
	TWC-Three-Way Catalyst	
	WUOC-Warm-Up Oxidation Catalyst	
	WUTWC-Warm-Up Three-Way Catalyst	

Fuel System

CFI, SFI, HOS, OS,  
 DIP, EPFI, MPFI, DID  
 nV-nVenturi Carburetor  
 VV-Variable Venturi Carburetor

VEHICLE MODELS:

<u>Engine Code</u>	<u>Model</u>	<u>Transmission</u>
AZ24ICM4	-----PATHFINDER E	5-speed Manual
BZ24ICM4	-----PATHFINDER E	5-Speed Manual

Engine: Front X Mid.        Rear       

Drive : FWD        RWD X 4WD Full Time        4WD Part Time X

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Page 4

Passenger Cars      Light-Duty Trucks   X   Medium-Duty Vehicles      Gas   X   Diesel     

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5HAC5  
Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC  
Emission Control Sys. (Special Features): AIV/DBC/EGR/OS (CFI/OBD)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System Part No.	EGR Valve Part No.	Catalyst *** Part No.
AZ24ICM4	PATHFINDER E (14.5)	M5	** 3875	Distributor D4P84-04 TOT80671	SPI Body Assem- bly RGA50-41	EGR Valve AEY76-88	D-xx,xL D-xx,xM D-xx,xC
BZ24ICM4	PATHFINDER E (14.5)			Control Unit MECS-G505	Control Unit MECS-G505		D-xx,xD

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

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